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RAW SEQUENCE LISTING DATE: 10/05/2004
PATENT APPLICATION: US/10/509,422 TIME: 11:16:59

Input Set : A:\Attorney Docket No. 004974.01054 sequence listing.txt.TXT

Output Set: N:\CRF4\10052004\J509422.raw

6 <110> APPLICANT: Liou, Simon

8 <120> TITLE OF INVENTION: Human BMP2 Inducible Kinases

10 <130> FILE REFERENCE: 004974.01015

C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/509,422

C--> 12 <141> CURRENT FILING DATE: 2004-09-24

12 <150> PRIOR APPLICATION NUMBER: PCT/EP03/080825

13 <151> PRIOR FILING DATE: 2003-03-20

15 <150> PRIOR APPLICATION NUMBER: US 60/367,512

16 <151> PRIOR FILING DATE: 2002-03-27

18 <150> PRIOR APPLICATION NUMBER: US 60/406,936

19 <151> PRIOR FILING DATE: 2002-08-30

21 <160> NUMBER OF SEQ ID NOS: 9

23 <170> SOFTWARE: FastSEQ for Windows Version 4.0



## **ERRORED SEQUENCES**

245 <210> SEQ ID NO: 3 246 <211> LENGTH: 3704 247 <212> TYPE: DNA

248 <213 > ORGANISM: Homo sapiens E--> 250 <400 > SEQUENCE: (4) 3

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| 252 | cttgcacgct  | ccctgcgccc | tccagctcgc | cggcgggacc | atgaagaagt | tctctcggat | 120   |
| 253 | gcccaagtcg  | gagggcggca | gcggcggcgg | agcggcgggt | ggcggggctg | gcggggccgg | 180   |
| 254 | ggccggggcc  | ggctgcggct | ccggcggctc | gtccgtgggg | gtccgggtgt | tcgcggtcgg | . 240 |
| 255 | ccgccaccag  | gtcaccctgg | aagagtcgct | ggccgaaggt | ggattctcca | cagttttcct | 300   |
| 256 | cgtgcgtact  | cacggtggaa | tccgatgtgc | attgaagcga | atgtatgtca | ataacatgcc | 360   |
| 257 | agacctcaat  | gtttgtaaaa | gggaaattac | aattatgaaa | gagctatctg | gtcacaaaaa | 420   |
| 258 | tattgtgggc  | tatttggact | gtgctgttaa | ttcaattagt | gataatgtat | gggaagtcct | 480   |
| 259 | tatcttaatg  | gaatattgtc | gagctggaca | ggtagtgaat | caaatgaata | agaagctaca | 540   |
| 260 | gacgggtttt  | acagaaccag | aagtgttaca | gatattctgt | gatacctgtg | aagctgttgc | 600   |
| 261 | aaggttgcat  | cagtgtaaga | ctccaataat | tcaccgggat | ctgaaggtag | aaaatatttt | 660   |
| 262 | gttgaatgat  | ggtgggaact | atgtactttg | tgactttggc | agtgccacta | ataaatttct | 720   |
| 263 | taatcctcaa  | aaagatggag | ttaatgtagt | agaagaagaa | attaaaaagt | atacaactct | 780   |
| 264 | gtcatacaga  | gcccctgaaa | tgatcaacct | ttatggaggg | aaacccatca | ccaccaaggc | 840   |
| 265 | tgatatctgg  | gcactgggat | gtctactcta | taaactttgt | ttcttcactc | ttccttttgg | 900   |
| 266 | tgagagtcag  | gttgctatct | gtgatggcaa | cttcaccatc | ccagacaatt | ctcgttactc | 960   |
| 267 | ccgtaacata  | cattgcttaa | taaggttcat | gcttgaacca | gatccggaac | atagacctga | 1020  |
| 268 | tatatttcaa  | gtgtcatatt | ttgcatttaa | atttgccaaa | aaggattgtc | cagtctccaa | 1080  |
|     |             |            | cttcagctct |            |            |            | 1140  |
|     |             |            | aagccagaat |            | _          |            | 1200  |
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271 aattgcacca agacaaagac caaaggccaa ctctgctact actgccactc ccagtgtgct

1260

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     276 gcaacagcaa cagcagcagc agcaacagca acagcagcag cagcagcagc agcagcagca
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     319 <212> TYPE: PRT
320 <213> ORGANISM: Mus musculus
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325 Ala Ala Ala Gly Gly Ala Ala Gly Gly Leu Gly Gly Phe Ala

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326 327 Ser Ser Ser Met Gly Val Arg Val Phe Ala Val Gly Arg Tyr Gln Val 40 329 Thr Leu Glu Glu Ser Leu Ala Glu Gly Gly Phe Ser Thr Val Phe Leu 331 Val Arg Thr His Ser Gly Ile Arg Cys Ala Leu Lys Arg Met Tyr Val 70 333 Asn Asn Thr Pro Asp Leu Asn Ile Cys Lys Arg Glu Ile Thr Ile Met 85 335 Lys Glu Leu Ser Gly His Lys Asn Ile Val Gly Tyr Leu Asp Cys Ala 100 · 105 337 Val Asn Ser Ile Ser Asp Asn Val Trp Glu Val Leu Ile Leu Met Glu 120 339 Tyr Cys Arg Ala Gly Gln Val Val Asn Gln Met Asn Lys Lys Leu Gln 135 341 Thr Gly Phe Thr Glu Ser Glu Val Leu Gln Ile Phe Cys Asp Thr Cys 342 145 150 155 343 Glu Ala Val Ala Arg Leu His Gln Cys Lys Thr Pro Ile Ile His Arg 165 170 345 Asp Leu Lys Val Glu Asn Ile Leu Leu Asn Asp Ala Gly Asn Tyr Val 180 185 347 Leu Cys Asp Phe Gly Ser Ala Thr Asn Lys Phe Leu Asn Pro Gln Lys 195 200 349 Asp Gly Val Asn Val Val Glu Glu Glu Ile Lys Lys Tyr Thr Thr Leu 210 215 220 351 Ser Tyr Arg Ala Pro Glu Met Ile Asn Leu Tyr Gly Gly Lys Pro Ile 230 235 353 Thr Thr Lys Ala Asp Ile Trp Ala Leu Gly Cys Leu Leu Tyr Lys Leu 245 250 355 Cys Phe Phe Thr Leu Pro Phe Gly Glu Ser Gln Val Ala Ile Cys Asp 265 260 357 Gly Ser Phe Thr Ile Pro Asp Asn Ser Arg Tyr Ser His Asn Val His 275 280 359 Cys Leu Ile Arg Phe Met Leu Glu Pro Asp Pro Glu Cys Arg Pro Asp 295 361 Ile Phe Gln Val Ser Tyr Phe Ala Phe Lys Phe Ala Lys Lys Asp Cys 310 315 363 Pro Val Ser Asn Ile Asn Asn Ser Phe Leu Pro Ser Thr Leu Pro Glu 330 325 365 Pro Met Thr Ala Thr Glu Ala Ala Ala Arg Lys Ser Gln Met Lys Ala 345 367 Arg Ile Thr Asp Thr Ile Gly Pro Thr Glu Thr Ser Ile Ala Pro Arg 355 360 369 Gln Arg Pro Lys Ala Asn Ser Thr Ala Ala Thr Ser Ser Val Leu Thr 370 375 371 Ile Gln Ser Ser Ala Thr Pro Val Lys Val Pro Ala Pro Gly Glu Phe 390 395 373 Ser Asn His Lys Pro Lys Gly Ala Leu Arg Pro Gly Asn Gly Ser Glu

410

405

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375 Val Leu Met Val Gln Gly Pro Pro Gln Gln Pro Pro Gln Gln His Arg 376 420 377 Val Leu Gln Gln Leu Gln Gln Gly Asp Trp Arg Leu Gln Gln Leu His 435 440 379 Leu His Arg His Pro His His His Gln Gln Gln Gln Gln Gln Gln Gln 455 381 Gln Gln Gln Gln Gln Gln Leu Gln Gln Gln Gln Gln Gln Gln Gln 470 475 383 Gln Leu Leu Gln Asn Ala Tyr Leu Gln Gln Tyr Gln His Ala Met His 485 490 385 Gln Gln His Ile Leu Gln Gln Gln Phe Leu Met His Ser Val Tyr Gln 505 387 Pro Gln Pro Pro Ala Ser Gln Tyr Pro Ala Met Met Gln Gln Tyr Gln 515 520 389 Gln Ala Phe Leu Gln Gln Gln Met Leu Ala Arg His Gln Gln Pro Ala 535 540 391 Gln Gln Val Ser Pro Glu Tyr Leu Thr Ser Pro Gln Glu Phe Ser Pro ·550 555 393 Ala Leu Val Ser Tyr Ala Ser Ser Leu Pro Ala Gln Val Gly Thr Ile 565 570 395 Val Asp Ser Ser Tyr Gly Ala Asn Arg Ser Val Ala Glu Lys Glu Ala 580 585 397 Val Ala Asn Phe Thr Asn Gln Lys Thr Ile Ser His Pro Pro Asp Met 595 600 605 399 Ser Gly Trp Asn Pro Phe Gly Glu Asp Asn Phe Ser Lys Leu Thr Glu 615 401 Glu Glu Leu Leu Asp Arg Glu Phe Asp Leu Leu Arg Ser Asn Arg Leu 630 635 403 Gly Ala Ser Thr Pro Ser Asp Lys Thr Val Asp Leu Pro Pro Ala Pro 405 His Ser Arg Pro Pro Glu Glu Pro Phe Ala Ser Val Pro Phe Ile Ser 406 665 660 407 His Ser Gly Ser Pro Glu Lys Lys Thr Thr Glu His Ser Pro Asn Gln 675 680 409 Lys Ser Ile Thr Ala Asn Leu Thr Lys Asn Gly Gly Ser Ser Pro Leu 690 695 700 411 Cys Lys Asp Gln Arg Ala Gly Lys Lys Thr Ser Glu Asn Pro Val Ile 710 715 413 Arg Gly Gln Val Gln Lys Gly His Asp Asp Ser Glu Ser Asp Phe Glu 725 730 415 Ser Asp Pro Pro Ser Pro Lys Ser Ser Glu Glu Glu Gln Glu Asp Glu 745 417 Asp Ala Gln Gly Glu His Gly Asp Phe Asn Asp Asp Thr Glu Pro 760 418 419 Glu Asn Leu Gly His Arg Pro Leu Leu Met Asp Ser Glu Asp Glu Glu 775 420 780 421 Glu Asp Asp Lys His Ser Ser Asp Ser Glu Cys Glu Gln Ala Lys Thr 790 795 423 Lys Arg Gly Asp Thr Ser Ser Leu Arg Arg Asp Lys Pro Gly Val Ala

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| 425 | Pro      | Asp  | Thr  | Ala        | Leu  | Leu      | Thr  | Pro  | Ala        | Arg  | Ser      | Pro  | Ala      | Asp      | Ala   | Leu  |
| 426 |          | _    |      | 820        |      |          |      |      | 825        |      |          |      |          | 830      |       |      |
| 427 | Thr      | Pro  | Ser  | Gln        | Glu  | Phe      | Asp  | Val  | Phe        | Gly  | Ala      | Val  | Pro      | Phe      | Phe   | Ala  |
| 428 |          |      | 835  |            |      |          |      | 840  |            |      |          |      | 845      |          |       |      |
| 429 | Ala      | Pro  | Ala  | Pro        | Gln  | Ser      | Leu  | Gln  | His        | Arg  | Gly      | Asp  | Gly      | Lys      | Asn   | Leu  |
| 430 |          | 850  |      |            |      |          | 855  |      |            |      |          | 860  |          |          |       |      |
| 431 | Ser      | Gln  | His  | Ala        | Phe  | Pro      | Glu  | Gln  | Glu        | Asp  | Phe      | Asp  | Val      | Phe      | Thr   | Lys  |
| 432 | 865      |      |      |            |      | 870      |      |      |            |      | 875      |      |          |          |       | 880  |
| 433 | Ala      | Pro  | Phe  | Asn        | Lys  | Lys      | Val  | Ser  | Val        | Gln  | Asp      | Trp  | Pro      | Ala      | Val   | Gly  |
| 434 |          |      |      |            | 885  |          |      |      |            | 890  |          |      |          |          | 895   | •    |
| 435 | Pro      | Asp  | Ala  | Arg        | Pro  | Leu      | Pro  | Ala  | Arg        | Pro  | Arg      | Ser  | Val      |          | Ile   | Phe  |
| 436 |          |      |      | 900        |      |          |      |      | 905        |      |          |      |          | 910      |       |      |
|     | Gly      | Ser  |      | Pro        | Phe  | Gln      | Pro  |      | Ser        | Val  | Ser      | Ala  |          | Lys      | Ser   | Glu  |
| 438 |          |      | 915  |            | _    | _        | _    | 920  | _          |      | _        | _    | 925      | _        |       | _    |
|     | Ser      | _    | Glu  | Asp        | Val  | Phe      | Gly  | Leu  | Val        | Pro  | Phe      |      | Glu      | Ile      | Thr   | Gly  |
| 440 | _        | 930  |      |            |      | _        | 935  | _    |            | _    | _        | 940  |          | _        | _     | _    |
|     |          | GIn  | Gln  | Gln        | GIn  | _        | Val  | Lys  | GIn        | Arg  |          | Leu  | Gln      | Lys      | Leu   |      |
|     | 945      | _    | ~3   | _          | _    | 950      | _    | ~ 7  | _          |      | 955      | _    | _        | _        | ~7    | 960  |
|     | Ser      | Arg  | GIn  | Arg        | _    | Thr      | Lys  | GIn  | Asp        |      | Ser      | Lys  | Ser      | Asn      | _     | Lys  |
| 444 | <b>3</b> | ***  | ***  | <b>~</b> 1 | 965  | <b>D</b> | ml   |      | <b>77.</b> | 970  | <b>+</b> | m1   | <b>.</b> | <b>.</b> | 975   | D    |
|     | Arg      | HIS  | HIS  | 980        | Thr  | Pro      | Thr  | ser  | 985        | гуѕ  | ьys      | Thr  | Leu      | _        | Pro   | PIO  |
| 446 | Пете     | 7~~  | mh~  |            | C1   | 7 ~~     | Ala  | 7~~  |            | uic  | T        | T    | Wa I     | 990      | 7 ~~  | 7~~  |
| 448 | ıyı      | Arg  | 995  | PIO        | GIU  | Arg      | AIA  | 1000 | _          | птъ  | пуѕ      | пуѕ  | 100      | _        | Arg   | Arg  |
|     | Aen      | Sar  |      | Ser        | Sar  | Δen      | Glu  |      |            | Thr  | т1_      | Ser  |          |          | Lare  | Glu  |
| 450 | лэр      | 1010 |      | SCI        | DCI  | ASII     | 1015 |      | пси        | 1111 | 116      | 1020 | _        | DCI      | цуз   | OIU. |
|     | Asn      |      |      | Val        | Δla  | Len      | Thr  |      | Glv        | Lvs  | Asn      |      |          | Ser      | Val   | Leu  |
|     | 102      |      |      | •          |      | 1030     |      | 1100 | 017        | _,_  | 103      | _    |          | 501      | · u _ | 1040 |
|     |          |      | Asp  | Glu        | Ser  |          | Leu  | Asp  | Pro        | Phe  |          |      | Lvs      | Pro      | Phe   |      |
| 454 |          |      |      |            | 1045 |          |      |      |            | 1050 |          |      | -1 -     |          | 105   |      |
| 455 | Pro      | Pro  | Asp  | Leu        | Trp  | His      | Gln  | Pro  | His        | Gln  | Gly      | Leu  | Ser      | Asp      | Ile   | Cys  |
| 456 |          |      | •    | 1060       |      |          |      |      | 1069       |      | 4        |      |          | 1070     |       | •    |
| 457 | Val      | Asp  | His  | Thr        | Thr  | Ile      | Leu  | Pro  | Gly        | Arg  | Pro      | Arg  | Gln      | Asn      | Ser   | Val  |
| 458 |          | -    | 1075 |            |      |          |      | 1080 | _          | _    |          | -    | 108      |          |       |      |
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| 460 |          | 1090 |      |            |      |          | 1099 |      |            |      | _        | 1100 | _        | -        |       | -    |
| 461 | Ala      | Val  | Pro  | Phe        | Thr  | Glu      | Leu  | Val  | Val        | Gln  | Ser      | Val  | Thr      | Pro      | Gln   | Gln  |
| 462 | 110      | 5    |      |            |      | 1110     | )    |      |            |      | 111      | 5    |          |          |       | 1120 |
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| 464 |          |      |      |            | 1125 | 5        |      |      |            | 1130 | 0        |      |          |          | 1139  | 5    |
| 465 | Lys      | Gln  |      |            |      |          |      |      |            |      |          |      |          |          |       |      |
|     |          |      |      |            |      |          |      |      |            |      |          |      |          |          |       |      |

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:250 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3 differs:4

L:322 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4 differs:3